

## SUPPLY CHAIN ARCHITECTURE

ABSTRACT OF THE DISCLOSURE

A supply chain network where customers, suppliers, logistics providers, carriers, and financial institutions are all connected to a centralized supply chain server. The server receives forecasts for direct material procurement from the customers detailing the orders that the customers desire. These forecasts are analyzed by the supply chain server to ensure that they conform to contractual agreements and do not contain errors. ~~The forecasts are also used to warn the suppliers of future demands so that the suppliers can anticipate demands and plan inventory accordingly. The supply chain server checks with the suppliers to determine whether the forecasts can be fulfilled by the suppliers. If the forecasts cannot be fulfilled by the suppliers, the~~ sends the forecasted demands to at least one supplier after determining the forecasts are valid. The supply chain server contacts customers and suppliers and attempts to either redistribute the customers' demands to different suppliers or request that customers alter their demands. Once supplier demand issues are resolved, the forecasts are sent to the suppliers in groups so that the suppliers need to prepare a smaller number of large orders. The supply chain server also controls the processes involved in distributing the product from the suppliers to the customers including the generation and payment of invoices. A form of financing the customers' purchases, made possible by the novel supply chain architecture, is also disclosed.